

PROPOSED DRAFT**RECEIVED
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AUG 17 2004**

Appl. No. 09/578,662
Amendment dated _____
Reply to Office Action of May 13, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:**22-27 (Canceled)**

28. **(Currently Amended)** A method of on-site analysis of a surface having fingerprints and other latent indicia thereon comprising the steps of:

- a) applying a fluorescing dye to the surface to be investigated;
- b) illuminating the surface to which said dye has been applied with unfiltered light emitted directly from at least one light emitting diode selected to emit sustained light in a wavelength range that will cause said dye to fluoresce, said diode and its power supply being portably mounted in and carried by respective personal attachment devices;
- c) detecting ~~reflected, —fluorescing~~ fluoresce light from fingerprints or indicia on said surface by viewing said light through a lens in goggles or eyeglasses that transforms reflected block the excitation light and transmit the fluorescent light to light visible to the human eye from the dye adhered to the fingerprint or indicia, said viewing being performed hands-free without manually manipulating said lens or said diode whereby said viewing may be performed while said dye is being applied and afterward.

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29. **(Currently Amended)** The method of claim 28 including ~~prior to step (b), the step of attaching at least one light emitting diode that emits light at a wavelength that will cause said dye to fluoresce to a personal attachment device~~ a multiplicity of said diodes and including the step of cooling said diodes while in use.

30. **(Currently Amended)** The method of claim 29 28 wherein the personal attachment device is a headband head set means and ~~the lens is the viewing lens of goggles or eyeglasses.~~

31. **(New)** A light source for detecting and analyzing fingerprints or other indicia on a surface to which a fluorescing dye is applied comprising:

a) at least one high efficiency, light emitting diode, said diode being selected to emit detectable light for a sustained period and project light onto a surface area in a wavelength range wherein the light emitted will cause said dye to fluoresce and reveal the presence of fingerprints or other indicia on the surface to which dye is applied;

b) a portable attachment device for mounting said light emitting diode on a person, said device being light weight, compact, and attachable to a person in a manner to provide hands free use of said light source whereby light emitted from said one diode may be directed to the surface area to which dye is applied during the application of dye and immediately thereafter; and

c) a portable power source for said light emitting diode.

32. **(New)** The light source of claim 31 wherein said at least one diode emits light in the range from about 400 nm to about 550 nm.

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33. (New) The light source of claim 31 including an array comprising 2 to 100 light emitting diodes.

34. (New) The light source of claim 31 wherein said personal attachment device is a head set means.

35. (New) The light source of claim 33 including means for cooling said diodes to increase diode lifetime.

36. (New) The light source of claim 35 wherein said cooling means includes a fan.

37. (New) The light source of claim 31 wherein said at least one diode has been selected to emit light at a wavelength that produces light in the range from 400 nm to 550 nm that will cause dyes selected from the group consisting of rhodamine 6G dye and fluorescent dyes to visibly fluoresce and be seen through eyeglasses or goggles with green, orange, or red filters.

38. (New) The light source of claim 31 wherein the portable power source is attached to the user to allow hands-free operation of the light source.

39. (New) The light source of claim 38 wherein the portable power source is selected from the group consisting of belt mounted battery packs, helmets, backpacks, and wrist packs.